

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33401

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68 ; C07H 21/02, 21/04 A01N 43/04

US CL : 435/6; 536/23.1 and 24.3 and 514/44

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 536/23.1 and 24.3 and 514/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,492,117 B1 (CHOO et al) 10 December 2002, see the entire document.	21-25
A,P	US2004/0171022 A1 (EBBINGHAUS et al) 02 September 2004, see the entire document.	1-25
A	US 5,739,308 (KANDIMALLA et al) 14 April 1998, see the entire document.	1-25
A, P	us 2004/0005601 A1 (SIDDIQUI-JAIN et al) 08 January 2004, see the entire document.	1-25

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 26 April 2005 (26.04.2005)	Date of mailing of the international search report <b>23 MAY 2005</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Ethan Whisenant, Ph.D. Telephone No. (703) 308-0196 <i>Ethan Whisenant</i> 602

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Continuation of B. FIELDS SEARCHED Item 3:  
USPATFULL, USPGPUBS, EUROPATFULL ALL via EAST; and WPIDS, Medline CApus via STN  
searchterms : quadraplex or quad\$ same nucleic or probe or oligonucleotide